

ABSTRACT

Devices and methods for achieving hemostasis and leakage control in hollow body vessels such as the small and large intestines, arteries and veins as well as ducts leading to the gall bladder and other organs. The devices and methods disclosed herein are especially useful in the emergency, trauma surgery or military setting, and most especially during damage control procedures. In such cases, the patient may have received trauma to the abdomen, extremities, neck or thoracic region. The devices utilize removable or permanently implanted, broad, soft, parallel jaw clips with minimal projections to maintain vessel contents without damage to the tissue comprising the vessel. These clips are applied using either standard instruments or custom devices that are subsequently removed leaving the clips implanted, on a temporary or permanent basis, to provide for hemostasis or leakage prevention, or both. These clips overcome the limitations of clips and sutures that are currently used for the same purposes. The clips come in a variety of shapes and sizes. The clips may be placed and removed by open surgery or laparoscopic access.